Claims

WHAT IS CLAIMED IS:

- 1 1. A method for preserving content, comprising:
- 2 receiving a request having content originating from a non-authenticated
- 3 client;
- 4 modifying the request and associating the content with the modified request;
- 5 redirecting the non-authenticated client to an authentication service and
- 6 including the modified request; and
- 7 receiving the modified request from an authenticated client and reacquiring
- 8 the content using the modified request.
- 1 2. The method of claim 1 wherein the modifying further includes compressing
- 2 the content within the modified request.
- 1 3. The method of claim 1 wherein the modifying further includes directing the
- 2 client to store the content in a temporary file and identifying the temporary file
- 3 within the modified request.
- 1 4. The method of claim 1 wherein the modifying further includes assigning a
- 2 key to the modified request, storing the content, and indexing the content based on
- 3 the key.
- 1 5. The method of claim 1 wherein the redirecting further includes installing a
- 2 resubmit application on the client that transparently transmits the modified request
- 3 from the client back to the method when the non-authenticated client is successfully
- 4 authenticated.
- 1 6. The method of claim 1 further comprising recreating the content based on
- 2 directions provided in the modified request.

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- 1 7. The method of claim 1 wherein the receiving the request further includes
- 2 receiving the request as a Uniform Resource Locator (URL) request from a World-
- 3 Wide Web (WWW) browser on the client, the request received over the Intent using
- Hyper Text Transfer Protocol (HTTP) communications. 4
- 1 8. A method for preserving content, comprising:
- 2 issuing a content-bearing request to a service;
- 3 receiving a modified request and a redirection for authentication;
- 4 authenticating with an authentication service; and
- 5 issuing the modified request to the service.
- 1 9. The method of claim 8 wherein the receiving further includes receiving a
- 2 resubmit application that automatically issues the modified request to the service
- 3 once authenticated by the authentication service.
- 1 10. The method of claim 8 wherein the receiving further includes receiving
- 2 content sent with the content-bearing request in a compressed format within the
- 3 modified request.
- 1 11. The method of claim 8 wherein the receiving further includes receiving
- 2 instructions with the modified request to store content sent with the content-bearing
- 3 request in a temporary file.
- 1 12. The method of claim 11 wherein the receiving the instructions further
- 2 include storing the content as a cookie.
- 1 13. The method of claim 8 wherein the receiving further includes receiving a
- 2 key associated with content sent with the content-bearing request, wherein the key is

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3 subsequently used to reacquire the content.

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- 1 14. The method of claim 8 wherein issuing the content-bearing request further
- 2 includes issuing the content bearing request as a Hyper Text Transfer Protocol
- 3 (HTTP) communication including at least one of a PUT operation and a POST
- 4 operation.
- 1 15. A content-preserving system, comprising:
- 2 a desired service; and
- 3 a proxy, wherein a client issues a content-bearing request to the desired
- 4 service and the proxy detects that the client is not authenticated to the desired
- 5 service, and wherein the proxy preserves content associated with the content-
- 6 bearing request, redirects the client to an authentication service, and directs the
- 7 client to issue a modified request after being authenticated, the modified request
- used by the proxy to reacquire the content and submit the original content-bearing 8
- 9 request to the desired service once the client is authenticated.
- 1 16. The content-preserving system of claim 15 wherein the modified request
- 2 includes instructions that direct the proxy on how to reacquire the content.
 - 1 17. The content-preserving system of claim 16 wherein the instructions indicate
 - 2 that the content is compressed within the modified request.
 - The content-preserving system of claim 16 wherein the instructions indicate 1 18.
 - that a key within the modified request is used to acquire the content from memory 2
 - 3 or storage accessible to the proxy.
 - The content-preserving system of claim 16 wherein instructions indicate that 1 19.
 - 2 the content can be acquired from memory or storage accessible to the client.
 - 1 20. The content-preserving system of claim 15, wherein the proxy detects that

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2 the client is not authenticated from the desired service.

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- A content-preserving data structure residing in computer-readable medium, 1 21.
- 2 the content-preserving data structure comprising:
- an original request data structure associated with an original content-bearing 3
- request for a desired service issued from a client; 4
- instruction data for reacquire content associated with the original content-5
- 6 bearing request; and
- modified request data that includes the original request along with the 7
- 8 instruction data.
- The content-preserving data structure of claim 21, wherein the instruction 1 22.
- data includes a key for acquiring the content to associated with the original content-2
- 3 bearing request.
- The content-preserving data structure of claim 22, wherein the key is used 1 23.
- for acquiring the content from a storage or memory location remote from the client. 2
- The content-preserving data structure of claim 21, wherein the instruction 1 24.
- data includes a resubmit application that processes on the client after the client is 2
- authenticated and is used by the client to automatically and transparently resubmit 3
- the modified request data once the client is authenticated. 4
- The content-preserving data structure of claim 21, wherein the instruction 25. 1
- data includes the content associated with the original content-bearing request in a 2
- 3 compressed format.
- The content-preserving data structure of claim 21, wherein the instruction 26. 1
- 2 data identifies an electronic file residing in memory or storage accessible to the
- client, the electronic file includes the content. 3
- The content-preserving data structure of claim 21, wherein the modified 27. 1

request data is sent from the client, which is authenticated, to the desired service. 2

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